

PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1

of 7

**Complete if Known**

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia
Attorney Docket Number	51871-000003

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JR	144	US- 4,948,843 A	08-14-1990	Roberts et al.	
	145	US- 4,950,587 A	08-21-1990	Roberts et al.	
	146	US- 5,408,109 A	04-18-1995	Heeger et al.	
	147	US- 5,612,221 A	03-18-1997	Simons et al.	
	148	US- 5,869,350 A	02-09-1999	Heeger et al.	
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	150	US- 5,968,762 A	10-19-1999	Jadamec et al.	
	151	US- 5,990,479 A	11-23-1999	Weiss et al.	
	152	US- 6,280,933 B1	08-28-2001	Glazer et al.	
	153	US- 6,534,329 B1	03-18-2003	Heeger et al.	
	154	US- 6,743,640 B1	06-01-2004	Whitten	
	155	US- 2002/0009728 A1	01-24-2002	Bittner	
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	158	US- 2002/0177136 A1	11-28-2002	McBranch	
	159	US- 2003/0054413 A1	03-20-2003	Kumaraswamy	
JR	160	US- 2004/0241768 A1	12-02-2004	Whitten	
	161	US- 60/202,647	05-08-2000	Whitten	
	162	US- 60/226,902	08-23-2000	Whitten	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JR	163	WO 99/35288 A1	07-15-1999	Minnesota Mining and Manufacturing Company		
	164	WO 00/14278 A1	03-16-2000	The Secretary of State for Defence		
	165	WO 00/66790 A1	11-09-2000	The Regents of the University of California		
	166	WO 02/081735 A2	10-17-2002	Infectio Diagnostic (I.D.I.) Inc.		
JR	167	WO 2004/001379 A2	12-31-2003	The Regents of the University of California		

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First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia
Attorney Docket Number	51871-000003

Sheet 2 of 7

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Signature**

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JR	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", Adv. Funct. Mater., June 2003, 13(6), 463-467.	
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JR	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.	
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JR	193	Wang et al., "Biosensors from conjugated polyelectrolyte complexes", PNAS, January 2002, 99(1), 49-53.	

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JR	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5	
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JR	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 1994, 91, 7360-7364.	

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Sheet	6	of	7

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JR	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescents Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
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JR	213	Liu et al., "Homogeneous Fluorescents-Based DNA Detection with Water-Soluble Conjugated Polymers", Chem. Mater., 2004, 16, 4467-4476.	

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JR	215	Umek et al., "Electronic Detection of Nucleic Acids, A Versatile Platform for Molecular Diagnostics", Journal of Molecular Diagnostics, May 2001, 3(2), 74-84.	
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JR	217	Wang, "Survey and Summary From DNA biosensors to gene chips", Nucleic Acids Research, 2000, 28(16), 3011-3016.	
JR	218	Beier et al., "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips", Nucleic Acids Research, 1999, 27(9), 1970-1977.	

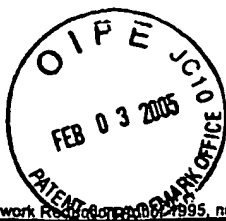
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	1	<del>BALAKIN, K.V. et al. Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes: Biosensors and Bioelectronics (1998) 13:771-778.</del> Duplicate	
JR	2	BARDEA, A. et al. Sensing and amplification of oligonucleotide-DNA interactions by means of impedance spectroscopy: a route to a Tay-Sachs sensor; <i>Chem. Commun.</i> (1999) 21-22.	
JR	3	BAUR, J.W., et al. Thin-Film Light-Emitting Devices Based on Sequentially Adsorbed Multilayers of Water-Soluble Poly (p-phenylene)s; <i>Advanced Materials</i> (1998) 10:17:1452-1455.	
JR	4	BEHR, J.P. Synthetic Gene-Transfer Vectors; <i>Acc. Chem. Res.</i> (1993) 26: 274-278.	
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JR	12	BLESSING, T. et al. Monomolecular collapse of plasmid DNA into stable virus-like particles; <i>Proc. Natl. Acad. Sci. USA</i> (1998) 95:1427-1431.	
JR	13	BRONICH, T.K. et al. Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers; <i>J. Am. Chem. Soc.</i> (2000) 122:35:8339-8343.	
	14	<del>CARDULLO, R.A. et al. Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer; <i>Proc. Natl. Acad. Sci. USA</i> (1988) 85:8790-8794.</del> Duplicate	

Examiner's Signature	/Jezia Riley/	Date Considered	05/30/2006
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia
Attorney Docket Number	51871-000003

Sheet **2** of **11****NON PATENT LITERATURE DOCUMENTS**

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JR	15	CASTRO, A. and WILLIAMS, J.G.K. Single-molecule detection of specific nucleic acid sequences in unamplified genomic DNA; <i>Anal. Chem.</i> (1997) 69:19:3915-3920.	
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	Application Number	10/600,286
	Filing Date	June 20, 2003
	First Named Inventor	Guillermo C. Bazan
	Art Unit	1637
	Examiner Name	Riley, Jezia
Sheet <b>3</b> of <b>11</b>	Attorney Docket Number	51871-000003

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JR	29	EGHOLM, M. et al. Recognition of Guanine and Adenine in DNA by Cytosine and Thymine Containing Peptide Nucleic Acids (PNA); <i>J. Am. Chem. Soc.</i> (1992) 114:9677-9678.	
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	32	FELGNER, P.L. et al. Nomenclature for Synthetic Gene Delivery Systems; <i>Hum. Gene Ther.</i> (1997) 8:511-512.	
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	38	GALLO, R and MONTAGNIER, L. AIDS in 1988; <i>Sci. Am.</i> (1988) 259:4: 41-48.	
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Examiner's Signature	/Jezia Riley/		Date Considered
			05/30/2006

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003
Sheet	4	of	11

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JR	43	GERSHON, H. et al. Mode of Formation and Structural Features of DNA-Cationic Liposome Complexes Used for Transfection; <i>Biochemistry</i> (1993) 32:7143-7151.	
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JR	45	GÖSSL, L. et al. Molecular Structure of Single DNA Complexes with Positively Charged Dendronized Polymers; <i>J. Am. Chem. Soc.</i> (2002) 124:6860-6865.	G
JR	46	HAGE, D.S.. Immunoassays; <i>Anal. Chem.</i> (1999) 71:12:294R-304R.	
JR	47	HANVEY, J.C. et al. Antisense and Antigene Properties of Peptide Nucleic Acids; <i>Science</i> (1992) 258:1481-1485.	
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	49	<del>HO, H.A. et al. Colorimetric and Fluorometric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives, <i>Angew. Chem. Int. Ed.</i> (2002) 41:9:1548-1551</del> Duplicate	
JR	50	IZUMRUDOV, V.A. et al. The influence of chain length of a competitive polyanion and nature of monovalent counterions on the direction of the substitution reaction of polyelectrolyte complexes; <i>Makromol. Chem., Rapid Commun.</i> (1988) 9:7-12.	
JR	51	IZUMRUDOV, V.A. et al. Competitive Reactions in Solutions of DNA and Water-Soluble Interpolyelectrolyte Complexes; <i>Biopolymers</i> (1995) 35:523-531.	
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JR	53	IZUMRUDOV, V.A. et al. Ethidium Bromide as a Promising Probe for Studying DNA Interaction with Cationic Amphiphiles and Stability of the Resulting Complexes; <i>Langmuir</i> (2002) 18:10348-10356.	
JR	54	IZUMRUDOV, V.A. et al. Controllable Stability of DNA-Containing Polyelectrolyte Complexes in Water-Salt Solutions; <i>Biopolymers.</i> (1999) 52:94-108.	
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JR	56	JAIN, C. and BELASCO, J.G. Rapid Genetic Analysis of RNA-Protein Interactions by Translational Repression in <i>Escherichia coli</i> ; <i>Methods Enzymol.</i> (2000) 318:309-332.	

Examiner's Signature	/Jezia Riley/	Date Considered	05/30/2006
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Sheet 5 of 11**Complete if Known**

Application Number	10/600,286
Filing Date	June 20, 2003
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Art Unit	1637
Examiner Name	Riley, Jezia
Attorney Docket Number	51871-000003

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JR	57	JENKINS, Y. and BARTON, J.K. A Sequence-Specific Molecular Light Switch: Tethering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II); <i>J. Am. Chem. Soc.</i> (1992) 114:8736-8738.	
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	59	KABANOV, A.V. et al. DNA Interpolyelectrolyte Complexes as a Tool for Efficient Cell Transformation; <i>Biopolymers.</i> (1991) 31:1437-1443.	
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JR	66	KNEMEYER, J. et al. <del>Probes for Detection of Specific DNA...</del> <i>Anal. Chem.</i> (2000) 72:3717-3724	
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Sheet 16

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JR	71	LEULLIOT, N. and VARANI, G. Current Topics in RNA-Protein Recognition: Control of Specificity and Biological Function through Induced Fit and Conformational Capture; <i>Biochemistry</i> (2001) 40:27:7947-7956.	
	72	LIU, B. et al. Effect of Chromophore-Charge Distance on the Energy Transfer Properties of Water-Soluble Conjugated Oligomers; <i>J. Am. Chem. Soc.</i> (2003) 125:6705-6714.	
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	80	<del>MCQUADE, D.T. et al. Conjugated Polymer-Based Chemical Sensors; <i>Chem. Rev.</i> (2000) 100:2537-2574.</del> Duplicate	
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/Jezia Riley/

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/600,286
		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet 17 of 11	Attorney Docket Number	51871-000003	

NON PATENT LITERATURE DOCUMENTS			
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JR	85	MILLER, I.R. and BACH, D. Interaction of DNA with Heavy Metal Ions and Polybases: Cooperative Phenomena; <i>Biopolymers</i> . (1968) 6:169-179.	
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	Application Number	10/600,286
	Filing Date	June 20, 2003
	First Named Inventor	Guillermo C. Bazan
	Art Unit	1637
	Examiner Name	Riley, Jezia
Sheet 8 of 11	Attorney Docket Number	51871-000003

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<del>missing</del> JR	96	PETERLINZ, K.P. et al. Observation of Hybridization and Dehybridization of Thiol-Tethered DNA using Two-Color Surface Plasmon Resonance Spectroscopy; <i>J. Am. Chem. Soc.</i> (1997) 119:3401-3402.	
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JR	107	SCHORK, N.J. et al. Single nucleotide polymorphisms and the future of genetic epidemiology; <i>Clin. Genet.</i> (2000) 58:250-264.	

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		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet 9 of 11	Attorney Docket Number	51871-000003	

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JR	108	SEYMOUR, L.W. et al. Cationic block copolymers as self-assembling vectors for gene delivery; <i>Self-assembling Complexes for Gene Delivery</i> ; (1998) 11:219-239.	
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	120	<del>DEMERS, L.M. et al. Thermal Desorption; J. Am. Chem. Soc. (2002) 124: 11242-11249</del>	
JR	121	TATON, T.A. et al. Scanometric DNA Array Detection with Nanoparticle Probes; <i>Science.</i> (2000) 289:1757-1760.	
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	Application Number	10/600,286
	Filing Date	June 20, 2003
	First Named Inventor	Guillermo C. Bazan
	Art Unit	1637
	Examiner Name	Riley, Jezia
Sheet 10 of 11	Attorney Docket Number	51871-000003

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JR	122	TATON, T.A. et al. Two-Color Labeling of Oligonucleotide Arrays via Size-Selective Scattering of Nanoparticle Probes; <i>J. Am. Chem. Soc.</i> (2001) 123:5164-5165.	
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	129	WANG, J. et al. Photoluminescence of Water-Soluble Conjugated Polymers: Origin of Enhanced Quenching by Charge Transfer; <i>Macromolecules</i> . (2000) 33:5153-5158.	
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	136	WARING, M. J. Complex Formation between Ethidium Bromide and Nucleic Acids; <i>J. Mol. Biol.</i> (1965) 13:269-282.	
JR	137	WEEKS, K.M. et al. Fragments of the HIV-1 Tat Protein Specifically Bind TAR RNA; <i>Science</i> . (1990) 249:1281-1285.	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

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Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
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Sheet 11 of 11

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/Jezia Riley/

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